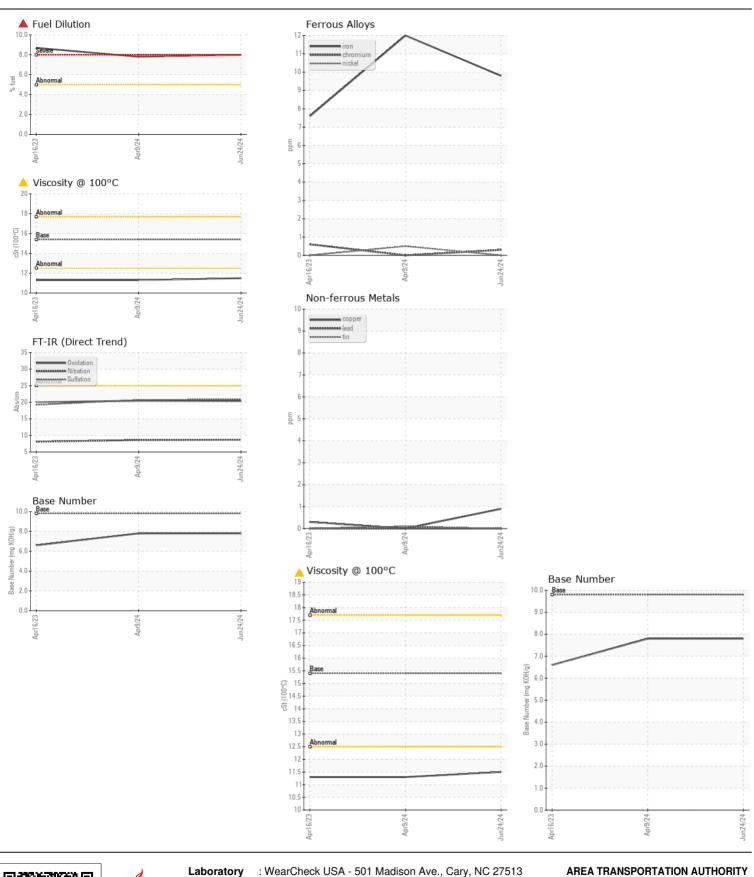
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL SEVERE ABNORMAL

Machine Id

727 Component Diosel Engine

Diesel Engine PETRO CANADA DURON SHP 15W40 (QTS))						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.	Sample Number		Client Info		WC0773687	WC0773700	WC0725908
	Sample Date		Client Info		24 Jun 2024	09 Apr 2024	16 Apr 2023
	Machine Age	hrs	Client Info		250	0	0
	Oil Age	hrs	Client Info		0	250	200
	Filter Age	hrs	Client Info		0	250	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				SEVERE	ABNORMAL	SEVERE
WEAR	Iron	ppm	ASTM D5185m	>100	10	12	8
WEAT	Chromium	ppm	ASTM D5185m		<1	0	<1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		<1	<1	1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	1	4	2
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	<1	0	<1
	Tin	ppm	ASTM D5185m	>15	0	<1	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		3	3	2
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185m		0	2	0
	Fuel	%	ASTM D3524	>5	▲ 8.0	<u>^</u> 7.8	8.7
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot %	% Aba/am	*ASTM D7844		0.3	0.3	0.4
	Nitration Sulfation	Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	8.7 20.9	8.6 20.7	8.1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	2	0
	Boron	ppm	ASTM D5185m	0	1	4	0
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	60	53	54	54
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	898	887	870
	Calcium	ppm	ASTM D5185m		1018	963	978
	Phosphorus	ppm	ASTM D5185m		969	973	945
	Zinc	ppm	ASTM D5185m		1188	1165	1147
	Sulfur	ppm	ASTM D5185m		3342	3372	3443
	Oxidation	Abs/.1mm	*ASTM D7414		20.4	20.5	20.0
	Base Number (BN)				7.8	7.8	6.6
	Visc @ 100°C	cSt	ASTM D445	15.4	<u> </u>	<u> </u>	<u> </u>





Laboratory Sample No. Lab Number : 06219095

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0773687

Tested Unique Number : 11097292

Diagnosed : 27 Jun 2024 - Wes Davis Test Package: FLEET (Additional Tests: PercentFuel)

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Received

: 24 Jun 2024

: 27 Jun 2024

44 TRANSPORTATION CENTER

JOHNSONBURG, PA

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